TWINFADE II

2 channel Dimmer

- Two channel LED/Incandescent dimmer
- Local or Remote control by DMX or Wireless DMX
- LED and Incandescent dimming curves
- Smooth fades on mains dimmable LEDs
- Fire, Ramp, and Strobe effects
- Remote control of mode and effects
- Thermal-magnetic circuit breaker
- Lumen Radio Wireless DMX option

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TWINFADE II FEATURES

The Twinfade II is a two channel portable dimmer suitable for a wide range of lighting control in theatres, TV studios, film sets, and exhibition and display lighting. It has dimmer curves for both incandescent and mains dimmable LED bulbs, and a range of automated lighting effects such as Fire, Ramp, Random Flash and Strobe, selected by the mode switch. When the mode switch is set 1-9, both dimmers are set to the same mode. In this case the level of each dimmer can be controlled locally using the faders and flash keys, or remotely by DMX channels 1 and 2. However If the mode switch is set to 0, the mode and level of each dimmer can be controlled remotely using four DMX channels- DMX 1 and 2 control the level or . effect rate, while DMX 3 sets the mode for dimmer 1, and DMX 4 sets the mode for Dimmer 2. Thus Mode 0 allows each dimmer to be set to a different effect - for example Dimmer 1 can be set to a fast random flash, while Dimmer 2 is set to a strobe effect. Typical uses for the Twinfade II include dimming followspots, and fire and strobe lighting effects on theatre,TV, and film sets. A major use is to vary lighting levels and colours on display items to attract viewer interest in shop windows, trade exhibitions and museums. As the Twinfade II can smoothly fade dimmable LED bulbs, it can contribute savings in air conditioning and power costs. The Twinfade II can be ordered fitted with an internal wireless DMX card by Lumen Radio (WDMX compatible) with external antenna.

EXTERNAL FEATURES

MOUNTING SLOTS
Mounting slots are provided at top and bottom

POWER CABLES
Mains power in and out cables

INSTRUCTIONS
Operating instructions are printed on the front panel for ease of use

MODE LIST
Each mode has its function listed

FLASH KEYS
Pressing a flash key takes the levels (or effect rate) to Full. If the fader level is over 95%, pressing the flash key turns off the dimmer. The keys are also used to unlink Wireless DMX (if fitted)- pressing both keys for 3 seconds with the DMX adress set 000 will unlink the receiver

MCB
A thermal magnetic breaker protects both dimmer channels from overload

FADERS
Each dimmer channel has a fader for local level or effects rate control

POWER LED
Indicates power is On

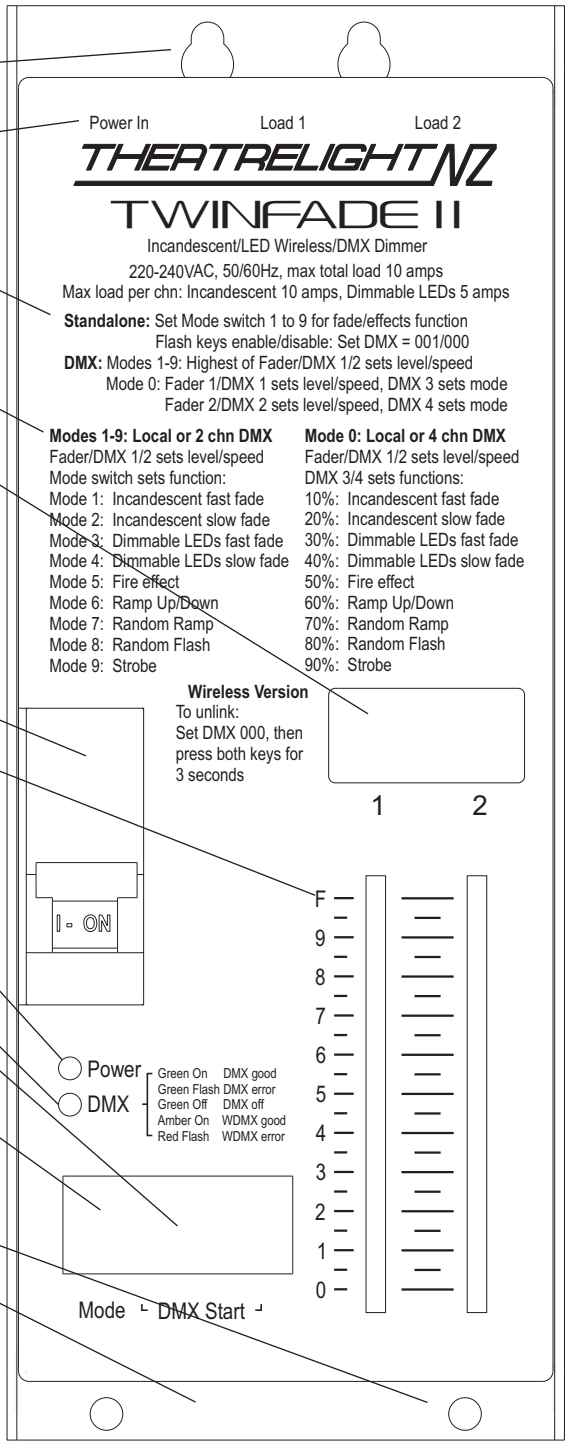
DMX LED
Green/Red LED indicates DMX and Wireless DMX status as per the front panel legend

DMX START ADDRESS
Sets DMX Start address for the 2/4 Twinfade control channels

MODE SWITCH
Sets dimmer curve and effects mode. When the mode switch is set to 0, Dimmer 1 mode is set by DMX 3, while Dimmer 2 mode is set by DMX 4 . Modes may be changed on the fly

ANTENNA SOCKET
(Option) Antenna socket for external wireless DMX reception.

DMX IN AND THRU SOCKETS
XLR 5 pin is standard, XLR 3 pin option to order



TWINFADE II SPECIFICATIONS

HOUSING: 1.5mm zinc coated steel, powder coated black
ELECTRONICS: High frequency pulse driven heavy duty SCRs with toroidal chokes. Minimum dimmable load is a single 4 watt mains dimmable LED bulb
WORKING TEMPERATURE: -30 to +35C ambient
CASE TEMPERATURE: 30C maximum above ambient
WORKING POSITION: Best cooling is obtained with the unit mounted vertically
HUMIDITY: 95% max, non-condensing
IP RATING: IP20 (indoor use only)
DMX INPUT: Current driven opto-isolator, 2kv isolation. DMX should be sourced from a 5 volt RS485 driver
DMX FAIL BEHAVIOUR: 10 minutes hold, then 5 min fade out for Modes 1-4, instant off for Modes 5-9
DIMMING RESOLUTION: 2,500 steps for the 8 bit (1 in 256) target resolution of DMX and fader levels
INPUT POWER: 220-250 vac, 50/60 Hz, 10 amps maximum
LOADS: Up to 2kW per channel, but total load must be limited to 2kW. Loads may be resistive, incandescent, inductive or capacitive. When using capacitive loads such as mains dimmable LED bulbs, the total load should reduced by 50%
LOAD PROTECTION: Thermal magnetic circuit breaker
STANDARDS: AS/NZS 3760, CE
DIMENSIONS: 220mm long x 87mm wide x 117mm high
WEIGHT: 2.8 kg including power cables
WIRELESS OPTION: Supplied with a factory fitted Lumen Radio CRMX Wireless DMX card and external antenna. The card also receives Wireless Solution (WDMX) signals. A valid wireless DMX signal takes precedence over cable DMX, but control reverts to cable DMX if the wireless signal is not present.

CONTROL MODES

The Twinfade II may be operated as a standalone dimmer using the mode switch to set a fixed effect from Mode 1 to Mode 10 for dimmers 1 and 2. In this case the chosen mode applies to both dimmers, while DMX channels 1 and 2 (or faders 1 and 2) set the level (or effects rate) of each dimmer. If the mode switch is set to Mode 0, the Twinfade II uses 4 channels of DMX: DMX 1 and 2 (or faders 1 and 2) set the level (or effects rate) of each dimmer, while DMX 3 selects the mode for dimmer 1 and DMX 4 sets the mode separately for dimmer 2. In this way the Twinfade II can display 2 different modes at once - eg dimmer 1 can be running a Fire effect while dimmer 2 is set to Strobe, and effects can be changed on the fly.

Mode 0: Remote Mode: DMX/Fader 1/2 sets level/rate of dimmers 1/2, DMX 3/4 sets modes 1-9 of dimmers 1/2 as follows below:
Mode 1: (or DMX 3/4 = 10% if Mode 0) Incandescent bulbs fast fade mode: levels 0 to 100%
Mode 2: (or DMX 3/4 = 20% if Mode 0) Incandescent bulbs slow fade mode: levels 0 to 100%
Mode 3: (or DMX 3/4 = 30% if Mode 0) Mains dimmable LED bulbs fast fade mode: levels 0 to 100%
Mode 4: (or DMX 3/4 = 40% if Mode 0) Mains dimmable LED bulbs slow fade mode: levels 0 to 100%
Mode 5: (or DMX 3/4 = 50% if Mode 0) Fire fade/flicker effect: Off, slow/dim to fast/bright
Mode 6: (or DMX 3/4 = 60% if Mode 0) Ramp Up/Dn 0-100% effect: Off, 10 minutes to 0.5 sec fade cycle
Mode 7: (or DMX 3/4 = 70% if Mode 0) Random Ramp effect: Off, slow to fast random ramp
Mode 8: (or DMX 3/4 = 80% if Mode 0) Random flash effect: Off, slow/dim to fast/bright
Mode 9: (or DMX 3/4 = 90% if Mode 0) Strobe flash effect: Off, 1 to 25 flashes per sec

Your Local Distributor:

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